



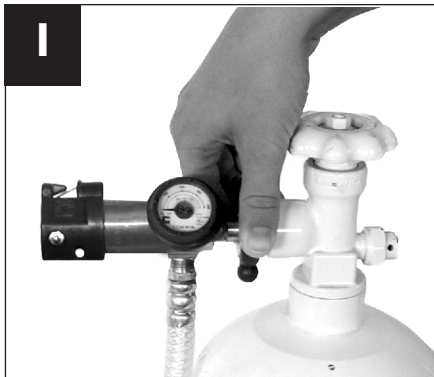
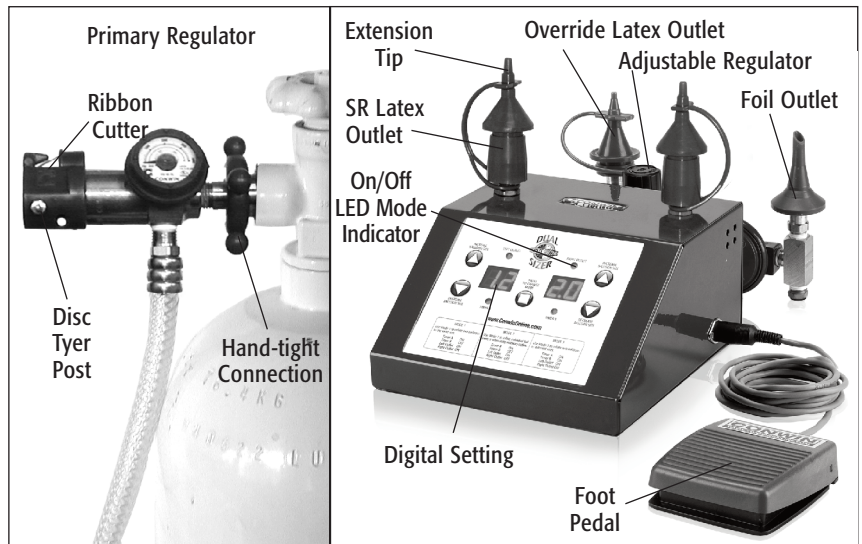
# Dual Split-Second Sizer Instruction Sheet

## Dual Split-Second Sizer Includes:

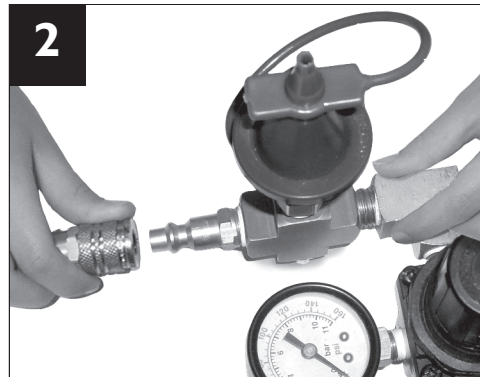
- 1 Dual Split-Second Sizer Inflator
- 1 Helium/Nitrogen Regulator
- 1 Primary Regulator & Supply Hose
- 1 Manual Override Latex Outlet
- 2 SR Latex Outlets
- 1 Second Stage Regulator
- 2 Extension Tips
- 1 Double Bubble Outlet
- 1 Auto-Fill Foil Outlet
- 1 Foot Pedal
- 1 Power Cord
- 1 Carrying Case

## Getting Started

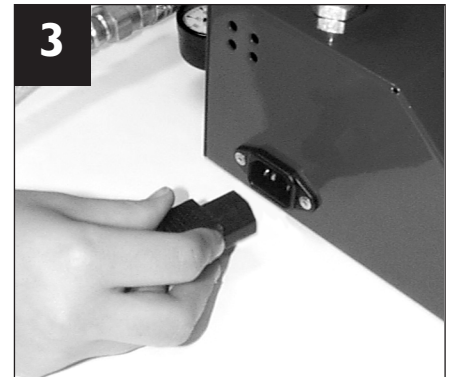
- To prevent the risk of electrical shock, do not use the Dual Split-Second Sizer outdoors when weather conditions are wet. Never operate unit on a wet floor or work area.
- Prior to plugging the Dual Split-Second Sizer into an electrical outlet, verify the electrical rating, listed on the label on the back of the Dual Split-Second Sizer, is suitable for outlet.
- If the Dual Split-Second Sizer malfunctions or is damaged in any way discontinue use and unplug unit from electrical outlet. Contact an authorized Conwin Service Center for details on how to receive service.
- Never attempt to repair the Dual Split-Second Sizer yourself. Opening the Dual Split-Second Sizer case will automatically void manufacturer warranty. Contact an authorized Conwin Service Center for all repairs.
- When using helium or nitrogen, always secure the cylinder in a safety stand or wall bracket.



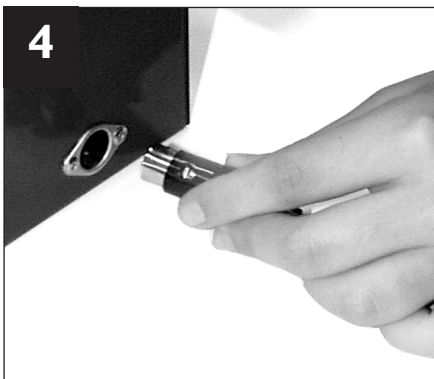
Hand-tighten the primary regulator to a helium or nitrogen cylinder. Make sure the cylinder is properly secured in a safety stand or wall bracket prior to attaching the primary regulator. **Note: Do not open the cylinder valve until Step 6.**



Push to connect the supply hose to the back outlet on the Dual Split-Second Sizer.



Plug the power cord into the side of the unit and into an electrical outlet. (A power strip with surge protector is recommended.) The digital display will appear when unit has power.



Plug the foot pedal into the side of the unit.



Hand-tighten the SR Latex Outlets.



Slowly open the cylinder valve. Make sure the valve is fully opened. The cylinder pressure will read on the gauge located on the regulator. The inlet pressure will read on the second stage regulator gauge, located on the back of the unit.

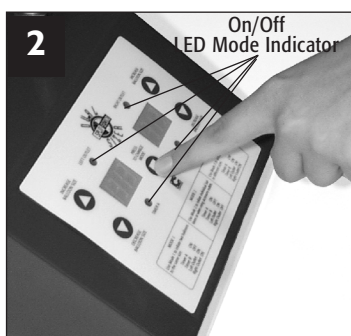
# Setting the Dual Split-Second Sizer



Reference the size setting chart below and set the Dual Split-Second Sizer to the appropriate time and pressure settings. To adjust the inlet pressure, pull the knob up to release it and turn the knob clockwise to increase the pressure and speed of inflation. This will increase the size of the balloon. To decrease the size of the balloon and speed of inflation, turn the knob counter-clockwise. Press the knob down to lock it in place after making the desired setting.

## Mode Settings

LED will light to indicate which mode the Dual Split-Second Sizer is set to. (see photo #2)



Select and set the proper mode by pressing the mode setting button. The LED display will indicate which mode the Dual Split-Second Sizer is in. (See Chart Below)



Place the balloon over the inflating outlet. Slightly roll the neck of the balloon over the inflating tip. This will insure the gas enters the center of the balloon and the round shape of the balloon is maintained during the inflation process.



Tap the foot pedal to begin the inflation cycle. When the system automatically shuts-off, remove the balloons from the outlets without allowing any of the gas to escape.

MODE 1	MODE 2	MODE 3
Use Mode 1 to inflate two balloons to the same size.	Use Mode 2 to inflate one balloon or when using an accessory outlet.	Use Mode 3 to inflate two balloons to different sizes.
Timer A ON	Timer A ON	Timer A ON
Timer B OFF	Timer B OFF	Timer B ON
Left Outlet ON	Left Outlet ON	Left Outlet ON
Right Outlet ON	Right Outlet OFF	Right Outlet ON

## Dual Split-Second Sizer Settings Chart

The following settings should be used as guidelines for the Dual Split-Second Sizer. Please note that size settings will vary based on user preference, balloon color, manufacturer and from unit to unit. To adjust the size of balloon to your individual preference it is necessary to inflate test balloons.

**PSI SETTINGS** refer to the gauge located on adjustable regulator at the back of Dual Split-Second Sizer. This controls the speed of the inflation cycle.

**SECONDS SETTINGS** refers to the tenth of a second increment readouts on digital display(s) on Dual Split-Second Sizer.

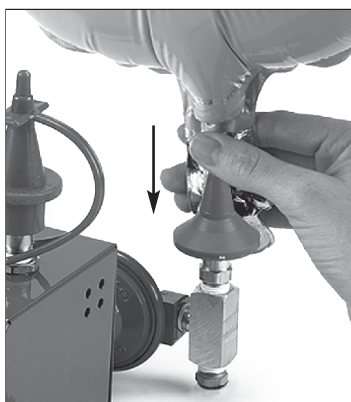
**Important:** To ensure consistent balloon sizing when using helium or nitrogen, it is necessary to check the size of the balloons every 1/3 of a cylinder of gas. If necessary, increase the size of the balloon by either increasing the size setting or the inlet pressure.

BALLOON SIZE	HELIUM		NITROGEN		AIR COMPRESSOR	
	1 Outlet	2 Outlets	1 Outlet	2 Outlets	1 Outlet	2 Outlets
5"	N/A	N/A	0.2 Seconds	0.3 Seconds	0.3 Seconds	0.4 Seconds
	N/A	N/A	70 PSI	70 PSI	70 PSI	70 PSI
9"	0.5 Seconds	0.6 Seconds	1.4 Seconds	1.6 Seconds	1.7 Seconds	2.5 Seconds
	70 PSI	70 PSI	70 PSI	70 PSI	70 PSI	70 PSI
11"	0.9 Seconds	1.0 Seconds	2.5 Seconds	2.9 Seconds	3.0 Seconds	4.6 Seconds
	70 PSI	70 PSI	70 PSI	70 PSI	70 PSI	70 PSI
16"	2.8 Seconds	3.2 Seconds	7.7 Seconds	8.3 Seconds	N/A	N/A
	70 PSI	70 PSI	70 PSI	70 PSI	N/A	N/A

## 60/40 Helium/Air Outlet Settings

The following settings should be used as guidelines for the using the optional 60/40 Helium/Air Outlet with the Dual Split-Second Sizer. The 60/40 Helium/Air Outlet is recommended for use with 16" or larger balloons. (See back page for details).

BALLOON SIZE	60/40 HELIUM/AIR OUTLET	
	1 Outlet	2 Outlets
16"	4.6 Seconds	4.9 Seconds
	80 PSI	80 PSI



## Auto-Fill Foil Outlet Instructions

Place the foil balloon over the inflating outlet. Pinch the neck of the balloon between thumb and forefinger and press down on the outlet. Support the foil balloon in an upright position to insure the neck of the balloon does not fold over the outlet and restrict the flow of helium. When the balloon has reached the proper pressure the inflator will automatically shut off the helium flow.

Remove the balloon from the outlet and attach a ribbon and a balloon weight.



## Manual Override Latex Outlet Instructions

Press push valve down to inflate individual balloons to any size without changing the digital size setting. The extension tip is available to inflate 5" and entertainer balloons.

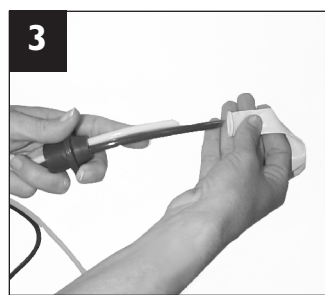
## Double Bubble Inflation Instructions



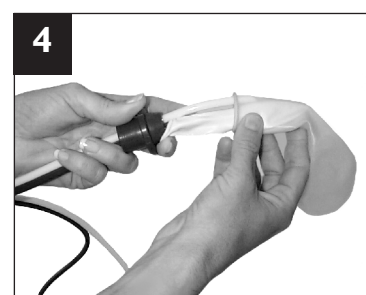
1. Press-fit the Double Bubble Outlet onto the inflating outlets of the Dual Split-Second Sizer. Attach the yellow hose to the right outlet and the blue hose to the left outlet.



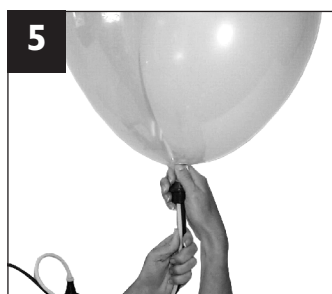
2. Set the Dual Split-Second Sizer to MODE 3 on the control panel. Reference the following chart to set the unit to properly inflate the balloons.



3. Place the 11" balloon over the blue hose.



4. Place the 16" balloon over the 11" balloon and the yellow hose. Hold firmly to prevent helium from escaping during the inflation process.



5. Tap the foot pedal to inflate the balloons. After the balloons are fully inflated, pinch the neck of the balloons together and remove the Double Bubble outlet quickly to prevent helium from escaping.

### Double Bubble Balloon Size Chart

Inside Balloon: 11"

70 PSI

Left outlet, blue hose,

Dual Sizer Setting: 1.1 Seconds

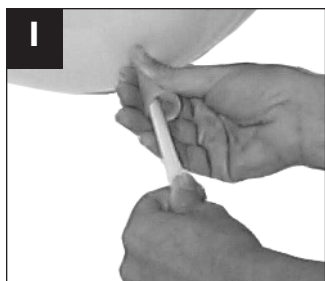
Outside Balloon: 16"

70 PSI

Right outlet, yellow hose,

Dual Sizer Setting: 2.5 Seconds

## Tying Double Bubble Balloons



1. Pull the neck of the inside 11" balloon while pinching the necks of the 2 balloons together.



2. Stretch the neck of the inside 11" balloon around the neck of the outside 16" balloon.



3. Tie off the balloon.



# Air Compressor Recommendations

Most air compressors are factory set to automatically cycle on at 90 PSI and automatically cycle off at 120 PSI. The Dual Split-Second Sizer must have a steady supply of air or gas to produce equal size balloons. For accurate sizing, it is essential to work within the limits of the cubic foot per minute capacity of the air compressor.

## Air Compressor Required Specifications

- Primary Moisture Filter
- 20 Gallon Storage Tank
- Cycle Pressure: 90 PSI On - 120 PSI Off
- Compressed Air Availability: 6.5 Cubic Foot/Minute @ 90 PSI

# Shutting Down the Dual Split-Second Sizer

1. Close the cylinder valve and turn the air compressor off.
2. Press down the foot pedal to cycle the system until all the pressure has been released from the unit.
3. Disconnect the supply hose from the back of the sizer. Remove regulator from the cylinder.
4. Unscrew the inflating outlets and place them in the compartment located in the lid of the carrying case.
5. Pack the Dual Sizer, supply hose, power cord, and regulator in carrying case.

## Important Guidelines When Using an Air Compressor

- Compressor must build up the tank pressure before inflating balloons.
- The output setting on the air compressor should not exceed 80 PSI. If the compressor is set higher than 80 PSI, the Dual Split-Second Sizer will out-perform the compressor's storage tank capacity.
- After each job, blow down the compressor to remove water collected in the tank during compression. The Dual Sizer will require factory rework and recalibration if moisture enters its system.
- Power surges will affect the Dual Split-Second Sizer accuracy - line voltage must be steady at 120 volts.

## Dual Split-Second Sizer Accessories



### The Insider Balloon Stuffing Tool

The Insider Balloon Stuffing Tool is an accessory item for Conwin's automatic sizing inflators. This fast and easy-to-use tool efficiently fills large balloons with the maximum number of small balloons. The Insider can be clamped to any convenient table or workstation. Conwin # 85900



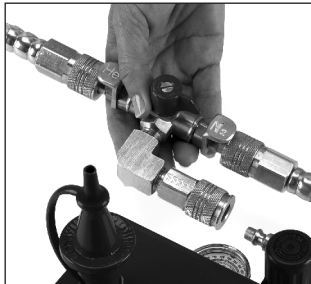
### Air Compressor Hook-Up

The Air Compressor Hook-Up, with quick-disconnect fittings, allows user to operate Dual Split-Second Sizer up to 12-ft. away from the compressor. Hook-Up air line also includes a filter that prevents dirt and moisture from entering the inflator. Conwin # 36340



### HI-FLOAT® Outlet

The hand-tight HI-FLOAT® Outlet enables the user to inflate balloons filled with HI-FLOAT® neck up. This prevents any HI-FLOAT® from getting into the Dual Split-Second Sizer. Conwin # 36320



### He/N2 Quick Switch

The He/N2 Quick Switch allows the user to switch from helium to nitrogen by turning the knob. Exclusively designed to be used with Conwin's Duplicator 2 and Dual Split-Second Sizer models that feature the second stage regulator separate from the supply line and primary regulator. Conwin # 36350



### 60/40 Helium-Air Outlet

The 60/40 Helium/Air Outlet enables the user to inflate 14" or larger balloons with a mixture of 60% helium and 40% air. The 60/40 Helium/Air Outlet easily attaches to the Dual Split-Second Sizer with a hand-tight connection. Conwin # 36310



### 60/40 HI-FLOAT® Adapter

The new 60/40 HI-FLOAT® Adapter combines the benefit of the HI-FLOAT® Outlet with the cost-saving feature of the 60/40 Helium-Air Outlet. Conwin # 36313

## Service & Warranty

For assistance with service & repair issues, or for warranty information, please visit [ConwinOnline.com](http://ConwinOnline.com), or call (818)246.9233

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